

10/573232

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STRUCTURE FILE UPDATES: 10 DEC 2009 HIGHEST RN 1196958-61-8

DICTIONARY FILE UPDATES: 10 DEC 2009 HIGHEST RN 1196958-61-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

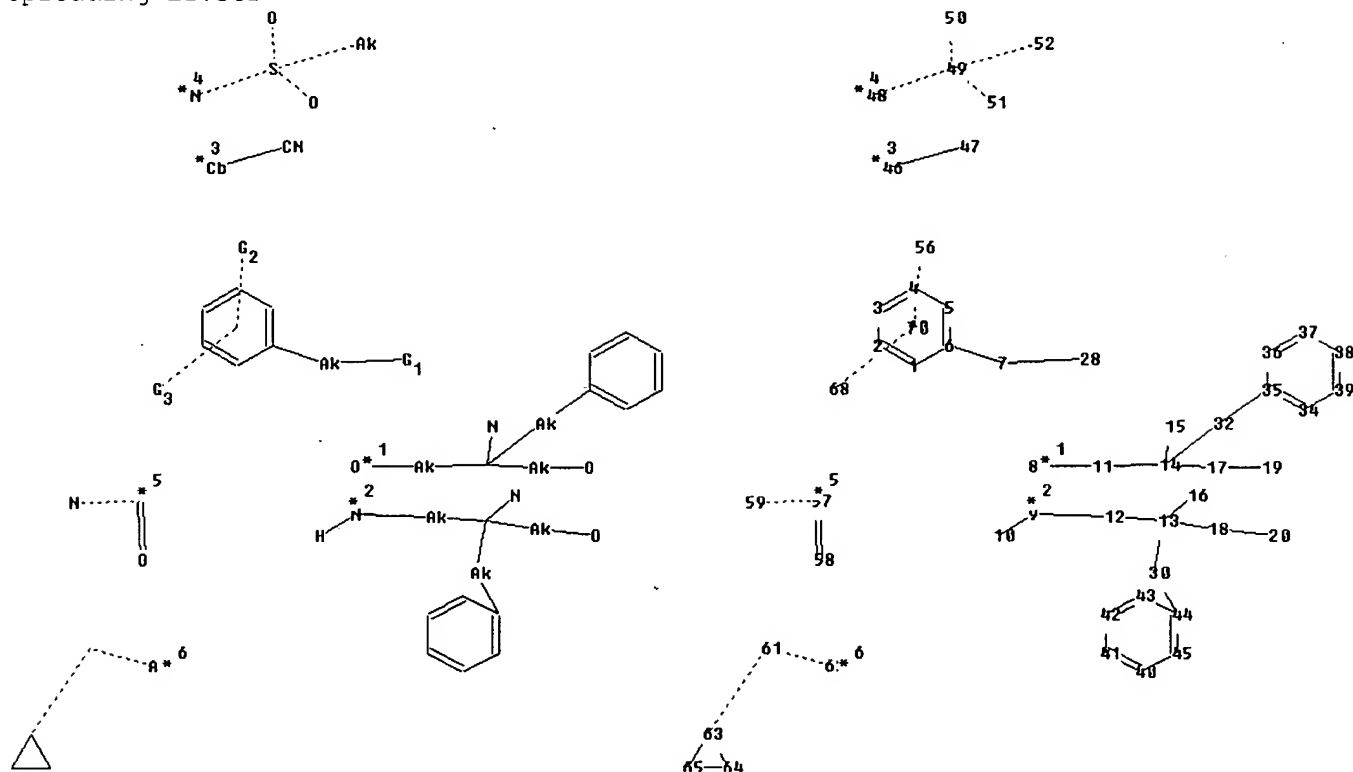
TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
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on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

Uploading Ll.str



chain nodes :

7 8 9 10 11 12 13 14 15 16 17 18 19 20 28 30 32 46 47 48 49
50 51 52 56 57 58 61 62 68

ring nodes :

1 2 3 4 5 6 34 35 36 37 38 39 40 41 42 43 44 45 63 64 65

ring/chain nodes :

59

chain bonds :

6-7 7-28 8-11 9-10 9-12 11-14 12-13 13-16 13-18 13-30 14-15 14-17 14-32
17-19 18-20 30-44 32-35 46-47 48-49 49-50 49-51 49-52 57-58 57-59 61-62
61-63

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 34-35 34-39 35-36 36-37 37-38 38-39 40-41 40-45

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41-42 42-43 43-44 44-45 63-64 63-65 64-65

exact/norm bonds :

6-7 7-28 8-11 9-12 11-14 12-13 13-16 13-18 13-30 14-15 14-17 14-32 30-44

32-35 48-49 49-50 49-51 49-52 57-58 57-59 61-62 61-63 63-64 63-65 64-65

exact bonds :

9-10 17-19 18-20 46-47

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 34-35 34-39 35-36 36-37 37-38 38-39 40-41 40-45

41-42 42-43 43-44 44-45

G1:[*1],[*2]

G2:[*3],[*4]

G3:[*5],[*6]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS

19:CLASS 20:CLASS

28:CLASS 30:CLASS 32:CLASS 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom

40:Atom 41:Atom

42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:CLASS 48:CLASS 49:CLASS 50:CLASS

51:CLASS

52:CLASS 56:CLASS 57:CLASS 58:CLASS 59:CLASS 61:CLASS 62:CLASS 63:Atom

64:Atom 65:Atom

68:CLASS 69:CLASS 70:CLASS

Generic attributes :

7:

Saturation : Saturated

11:

Saturation : Saturated

12:

Saturation : Saturated

17:

Saturation : Saturated

18:

Saturation : Saturated

30:

Saturation : Saturated

32:

Saturation : Saturated

Element Count :

Node 7: Limited

C,C1-2

Node 11: Limited

C,C1-2

Node 12: Limited

C,C1-2

Node 17: Limited

C,C1-2

Node 18: Limited

10/573232

C, C1-2

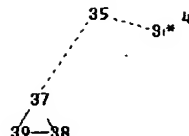
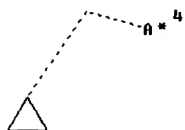
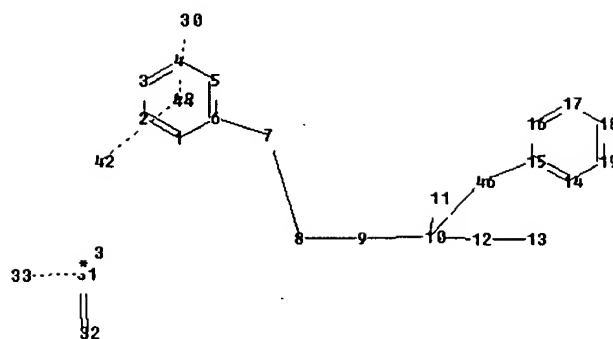
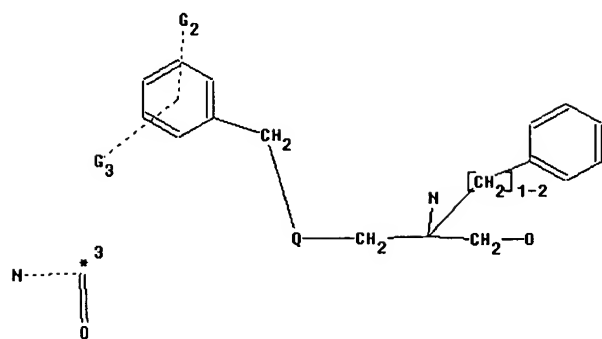
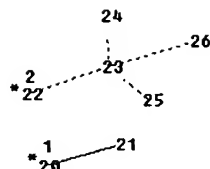
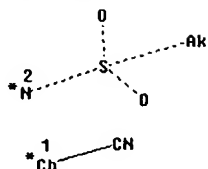
Node 30: Limited

C, C1-3

Node 32: Limited

C, C1-3

Uploading L14.str



```
chain nodes :
```

7 8 9 10 11 12 13 20 21 22 23 24 25 26 30 31 32 35 36 42 46

ring nodes :

1 2 3 4 5 6 14 15 16 17 18 19 37 38 39

ring/chain nodes :

33

chain bonds :

6-7	7-8	8-9	9-10	10-11	10-12	10-46	12-13	15-46	20-21	22-23	23-24	23-25
23-26	31-32	31-33	35-36	35-37								

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 14-15 14-19 15-16 16-17 17-18 18-19 37-38 37-39

38-39

exact/norm bonds :

7-8 8-9 10-11 22-23 23-24 23-25 23-26 31-32 31-33 35-36 35-37 37-38 37-39

38-39

exact bonds :

6-7 9-10 10-12 10-46 12-13 15-46 20-21

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normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 14-15 14-19 15-16 16-17 17-18 18-19

G2:[*1],[*2]

G3:[*3],[*4]

Connectivity :

8:2 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:CLASS
22:Atom 23:Atom 24:CLASS 25:CLASS 26:CLASS 30:CLASS 31:CLASS 32:Atom
33:Atom 35:CLASS 36:CLASS
37:Atom 38:Atom 39:Atom 42:CLASS 43:CLASS 44:CLASS 46:CLASS

=> file zcaplus

FILE 'ZCAPLUS' ENTERED AT 13:24:49 ON 11 DEC 2009

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FILE COVERS 1907 - 11 Dec 2009 VOL 151 ISS 25

FILE LAST UPDATED: 10 Dec 2009 (20091210/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

ZCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'ZCAPLUS' FILE

=> d stat que L6

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

10/573232

L3 SCR 1071
L5 38 SEA FILE=REGISTRY SSS FUL L1 AND L3
L6 4 SEA FILE=ZCAPLUS SPE=ON ABB=ON PLU=ON L5

=> file beilstein

FILE 'BEILSTEIN' ENTERED AT 13:25:02 ON 11 DEC 2009
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FILE LAST UPDATED ON April 24, 2009

FILE COVERS 1779 TO 2008.

*** FILE CONTAINS 10,593,281 SUBSTANCES ***

>>>PLEASE NOTE: Reaction Data and substance data are stored in separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

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>>> Price change as of January 1st, 2008: Connect Time and Structure Search fees re-introduced. See HELP COST <<<

=> d stat que L8

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L3 SCR 1071
L8 3 SEA FILE=BEILSTEIN SSS FUL L1 AND L3

100.0% PROCESSED 4773 ITERATIONS 3 ANSWERS
SEARCH TIME: 00.00.08

=> file wpix

FILE 'WPIX' ENTERED AT 13:25:10 ON 11 DEC 2009
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FILE LAST UPDATED: 4 DEC 2009 <20091204/UP>
MOST RECENT UPDATE: 200978 <200978/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

10/573232

>>> Now containing more than 1.4 million chemical structures in DCR <<<

>>> IPC, ECLA, US National Classifications and Japanese F-Terms
and FI-Terms have been updated with reclassifications to
end of September 2009.

No update date (UP) has been created for the reclassified
documents, but they can be identified by
specific update codes (see HELP CLA for details) <<<

FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
PLEASE VISIT:

http://www.stn-international.com/stn_guide.html

FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE

<http://scientific.thomsonreuters.com/support/patents/coverage/latestupdates/>

EXPLORE DERWENT WORLD PATENTS INDEX IN STN ANAVIST, VERSION 2.0:

http://www.stn-international.com/DWPIAnaVist2_0608.html

>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> Japanese FI-TERM thesaurus in field /FCL added --> see NEWS <<<
'BIX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

=> d stat que L11

L1 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L3 SCR 1071

L10 27 SEA FILE=WPIX SSS FUL L1 AND L3

L11 2 SEA FILE=WPIX SPE=ON ABB=ON PLU=ON L10/DCR

=> file marpat

FILE 'MARPAT' ENTERED AT 13:25:20 ON 11 DEC 2009

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FILE CONTENT: 1961-PRESENT VOL 151 ISS 23 (20091204/ED)

MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 20090275099 05 NOV 2009

DE 102008019858 22 OCT 2009

EP 2110127 21 OCT 2009

JP 2009260249 05 NOV 2009

WO 2009135699 12 NOV 2009

GB 2459133 14 OCT 2009

FR 2930141 23 OCT 2009

RU 2370496 20 OCT 2009

CA 2653107 08 AUG 2009

The new MARPAT User Guide is now available at:

<http://www.cas.org/support/stngen/stndoc/marpat.html>.

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=> d stat que L16
L14 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.
L16 1 SEA FILE=MARPAT SSS FUL L14

100.0% PROCESSED 132230 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.40

=> dup rem L6 L8 L11 L16
DUPLICATE IS NOT AVAILABLE IN 'BEILSTEIN'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
FILE 'ZCAPLUS' ENTERED AT 13:25:33 ON 11 DEC 2009
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PROCESSING COMPLETED FOR L6
PROCESSING COMPLETED FOR L8
PROCESSING COMPLETED FOR L11
PROCESSING COMPLETED FOR L16

L17 7 DUP REM L6 L8 L11 L16 (3 DUPLICATES REMOVED)
ANSWERS '1-4' FROM FILE ZCAPLUS
ANSWERS '5-7' FROM FILE BEILSTEIN

=> d ibib abs hitstr L17 1-4; d ide allref L17 5-7

L17 ANSWER 1 OF 7 ZCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2005:324002 ZCAPLUS Full-text
DOCUMENT NUMBER: 142:373552
TITLE: Benzyl ethers and benzylamines as beta-secretase
inhibitors, their preparation and use for the
treatment of Alzheimer's disease
INVENTOR(S): Nantermet, Philippe G.; Rajapakse, Hemaka Anthony;
Selnick, Harold G.
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 47 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2005032471	A2	20050414	WO 2004-US32009	20040929
WO 2005032471	A3	20050707		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004277981	A1	20050414	AU 2004-277981	20040929
AU 2004277981	B2	20091001		
CA 2540452	A1	20050414	CA 2004-2540452	20040929
EP 1673078	A2	20060628	EP 2004-789263	20040929
EP 1673078	B1	20080528		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1859904	A	20061108	CN 2004-80028599	20040929
JP 2007507515	T	20070329	JP 2006-534062	20040929
AT 396973	T	20080615	AT 2004-789263	20040929
IN 2006DN01546	A	20070810	IN 2006-DN1546	20060322
US 20060293380	A1	20061228	US 2006-573232	20060323
PRIORITY APPLN. INFO.:			US 2003-508369P	P 20031003
			WO 2004-US32009	W 20040929

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT
OTHER SOURCE(S): MARPAT 142:373552
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The invention relates to a group of benzyl ethers and benzylamines I which are inhibitors of the beta-secretase enzyme. In compds. I, X is O or NH; Y is CH or N; R1 is selected from aryl, arylmethyl, heterocyclyl, and heterocyclylmethyl, wherein the ring is unsubstituted or substituted with one or more substituents selected from halo, OH, C1-6 alkyl, C2-6 alkenyl, C2-6 alkynyl, cyano, and C1-6 alkoxy; R2 is selected from alkyl(alkylsulfonyl)amino, (alkylsulfonyl)amino, o-cyanophenyl, and, gem-cyanocycloalkyl; R3 is selected from (un)substituted (arylalkyl)aminocarbonyl, aminocarbonyl, alkylaminocarbonyl, cyclopropylethenyl, cyclopropylmethoxy, and cyclopropylmethylamino; and includes all pharmaceutically acceptable salts. The invention also relates to the preparation of I, pharmaceutical compns. comprising these compds. and a pharmaceutically acceptable carrier, and the use of these compds. and compns. in the treatment of diseases in which the beta-secretase enzyme is involved, such as Alzheimer's disease. N-Methylsulfonylation of di-Me 5-aminoisophthalate, followed by N-methylation, gave II, which was partially hydrolyzed and coupled with a chiral amine to give III. Hydrolysis of III followed by borane reduction, bromination, and substitution with 2-amino-2-benzylpropane-1,3-diol, prepared by reduction of racemic α -benzylserine, resulted in the formation of IV. The compds. of the invention inhibit the beta-secretase enzyme, generally with IC50 values from about 1 nM to 100 μ M.

IT 849622-98-6P, 3-[(2-Amino-2-benzyl-3-hydroxypropoxy)methyl]-N-[(1R)-1-(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]benzamide
849623-02-5P, 3-[[[(2-Amino-2-benzyl-3-hydroxypropyl)amino]methyl]-

10/573232

N-[(1R)-1-(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]benzamide
trifluoroacetate 849623-03-6P,
3'-[[2-Amino-2-benzyl-3-hydroxypropoxy)methyl]-5'-[[2-(2-furyl)pyrrolidin-
1-yl]carbonyl]-1,1'-biphenyl-2-carbonitrile 849623-05-8P
849623-06-9P 849623-07-0P 849623-08-1P
849623-09-2P 849623-10-5P 849623-11-6P
849623-12-7P 849623-13-8P 849623-14-9P
849623-15-0P 849623-16-1P 849623-18-3P
849623-19-4P

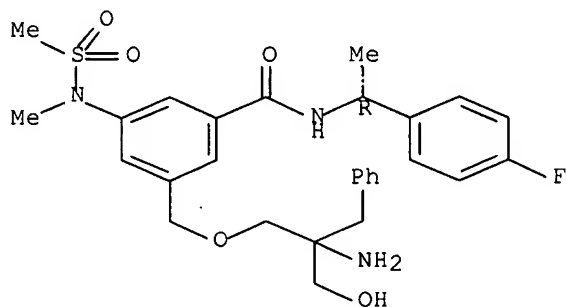
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(drug candidate; preparation of benzyl ethers and benzylamines as
beta-secretase inhibitors for the treatment of Alzheimer's disease)

RN 849622-98-6 ZCAPLUS

CN Benzamide, 3-[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy)methyl]-N-[(1R)-1-
(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]- (CA INDEX NAME)

Absolute stereochemistry.



RN 849623-02-5 ZCAPLUS

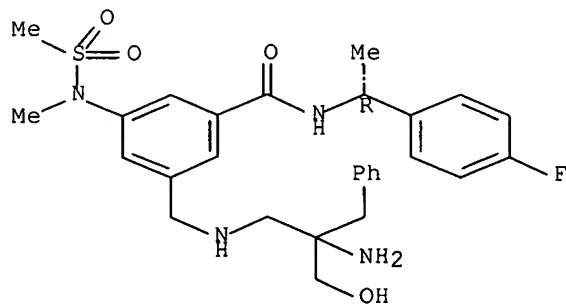
CN Benzamide, 3-[[[2-amino-2-(hydroxymethyl)-3-phenylpropyl]amino]methyl]-N-
[(1R)-1-(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]-,
2,2,2-trifluoroacetate (1:2) (CA INDEX NAME)

CM 1

CRN 849623-01-4

CMF C28 H35 F N4 O4 S

Absolute stereochemistry.

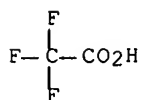


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CM 2

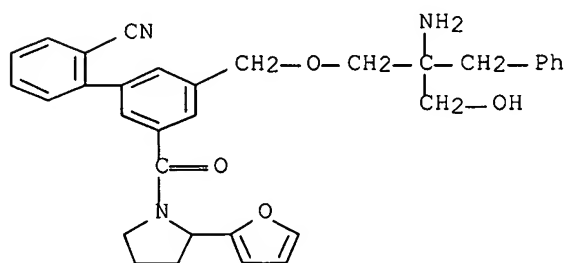
CRN 76-05-1

CMF C2 H F3 O2



RN 849623-03-6 ZCAPLUS

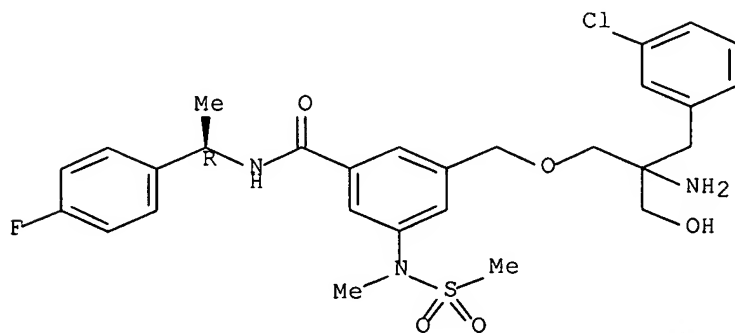
CN [1,1'-Biphenyl]-2-carbonitrile, 3'--[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-5'--[[2-(2-furanyl)-1-pyrrolidinyl]carbonyl]- (CA INDEX NAME)



RN 849623-05-8 ZCAPLUS

CN Benzamide, 3-[[2-amino-3-(3-chlorophenyl)-2-(hydroxymethyl)propoxy]methyl]-N-[(1R)-1-(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]- (CA INDEX NAME)

Absolute stereochemistry.

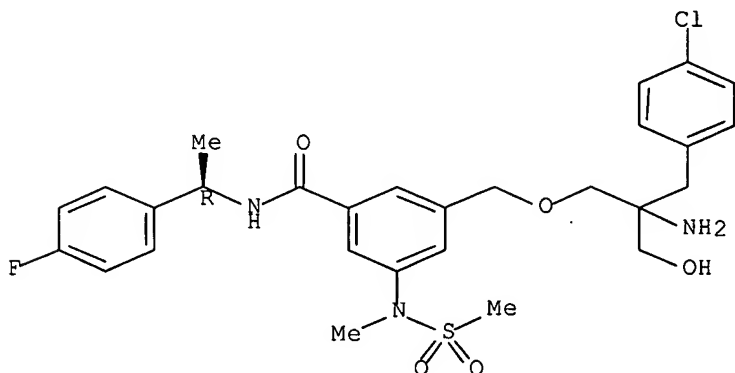


RN 849623-06-9 ZCAPLUS

10/573232

CN Benzamide, 3-[[2-amino-3-(4-chlorophenyl)-2-(hydroxymethyl)propoxy)methyl]-N-[(1R)-1-(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]- (CA INDEX NAME)

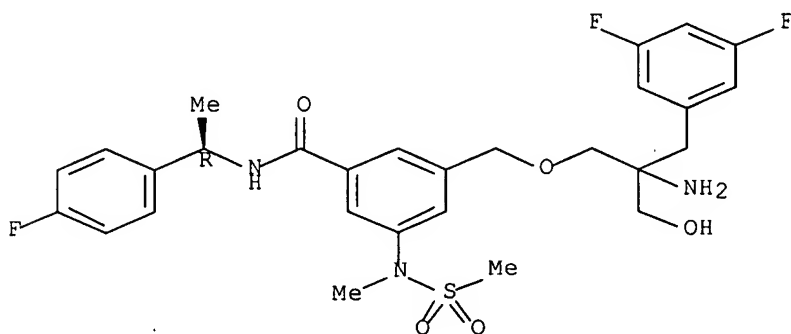
Absolute stereochemistry.



RN 849623-07-0 ZCAPLUS

CN Benzamide, 3-[[2-amino-3-(3,5-difluorophenyl)-2-(hydroxymethyl)propoxy)methyl]-N-[(1R)-1-(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]- (CA INDEX NAME)

Absolute stereochemistry.

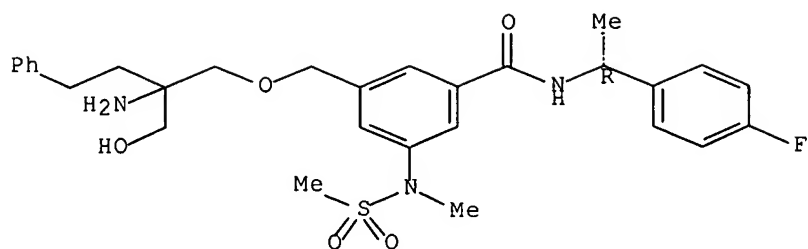


RN 849623-08-1 ZCAPLUS

CN Benzamide, 3-[[2-amino-2-(hydroxymethyl)-4-phenylbutoxy)methyl]-N-[(1R)-1-(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]- (CA INDEX NAME)

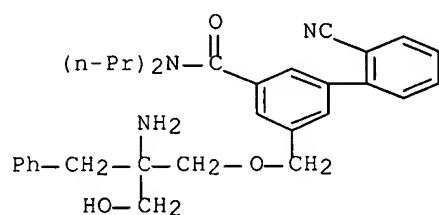
Absolute stereochemistry.

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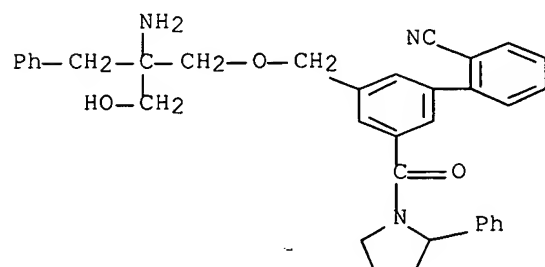
RN 849623-09-2 ZCAPLUS

CN [1,1'-Biphenyl]-3-carboxamide, 5-[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-2'-cyano-N,N-dipropyl- (CA INDEX NAME)



RN 849623-10-5 ZCAPLUS

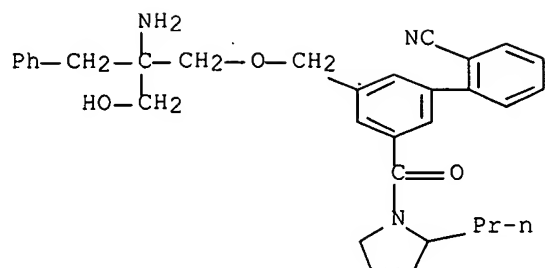
CN [1,1'-Biphenyl]-2-carbonitrile, 3'-[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-5'-[(2-phenyl-1-pyrrolidinyl)carbonyl]- (CA INDEX NAME)



RN 849623-11-6 ZCAPLUS

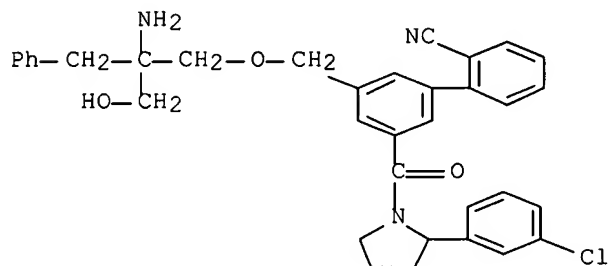
CN [1,1'-Biphenyl]-2-carbonitrile, 3'-[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-5'-[(2-propyl-1-pyrrolidinyl)carbonyl]- (CA INDEX NAME)

10/573232



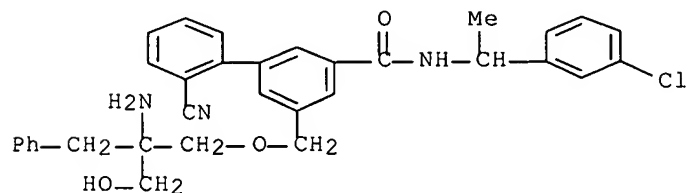
RN 849623-12-7 ZCAPLUS

CN [1,1'-Biphenyl]-2-carbonitrile, 3'--[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-5'--[[2-(3-chlorophenyl)-1-pyrrolidinyl]carbonyl]- (CA INDEX NAME)



RN 849623-13-8 ZCAPLUS

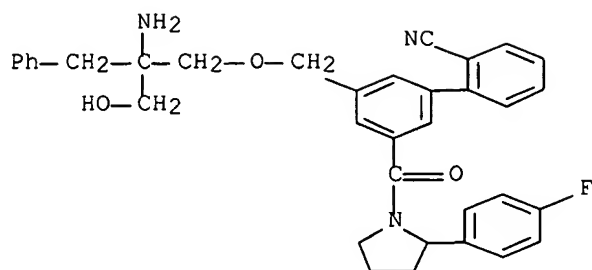
CN [1,1'-Biphenyl]-3-carboxamide, 5'--[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-N-[1-(3-chlorophenyl)ethyl]-2'-cyano- (CA INDEX NAME)



RN 849623-14-9 ZCAPLUS

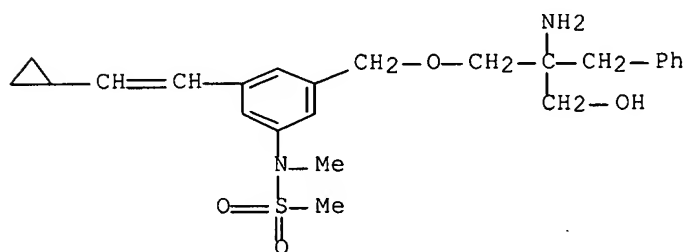
CN [1,1'-Biphenyl]-2-carbonitrile, 3'--[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-5'--[[2-(4-fluorophenyl)-1-pyrrolidinyl]carbonyl]- (CA INDEX NAME)

10/573232



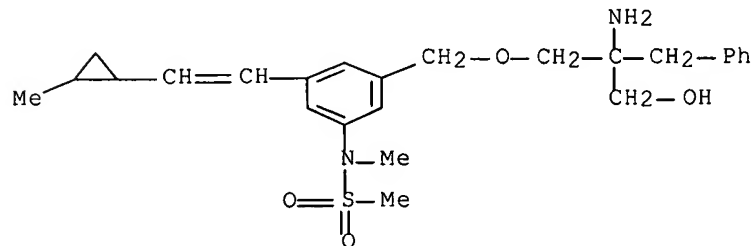
RN 849623-15-0 ZCAPLUS

CN Methanesulfonamide, N-[3-[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-5-(2-cyclopropylethenyl)phenyl]-N-methyl- (CA INDEX NAME)



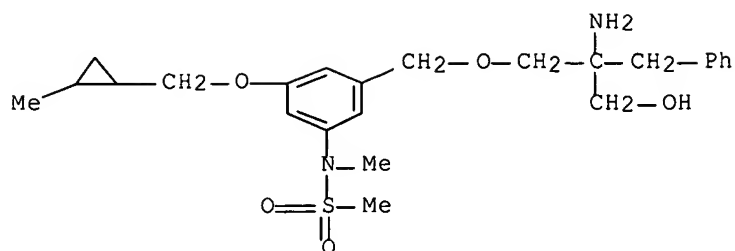
RN 849623-16-1 ZCAPLUS

CN Methanesulfonamide, N-[3-[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-5-[2-(2-methylcyclopropyl)ethenyl]phenyl]-N-methyl- (CA INDEX NAME)



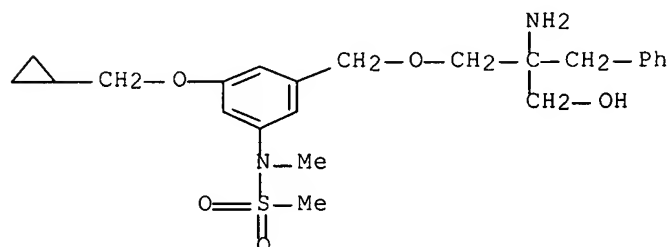
RN 849623-18-3 ZCAPLUS

CN Methanesulfonamide, N-[3-[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-5-[(2-methylcyclopropyl)methoxy]phenyl]-N-methyl- (CA INDEX NAME)



RN 849623-19-4 ZCAPLUS

CN Methanesulfonamide, N-[3-[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-5-(cyclopropylmethoxy)phenyl]-N-methyl- (CA INDEX NAME)



OS.CITING REF COUNT: 3 THERE ARE 3 CAPLUS RECORDS THAT CITE THIS RECORD (3 CITINGS)
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 2 OF 7 ZCAPLUS COPYRIGHT 2009 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2005:55021 ZCAPLUS Full-text

DOCUMENT NUMBER: 142:134323

TITLE: Preparation of phenylcarboxylate esters as β -secretase inhibitors for the treatment of Alzheimer's disease

INVENTOR(S): Nantermet, Philippe G.; Rajapakse, Hemaka Anthony; Selnick, Harold G.

PATENT ASSIGNEE(S): Merck & Co., Inc., USA

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005004803	A2	20050120	WO 2004-US20525	20040625
WO 2005004803	A3	20050421		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,

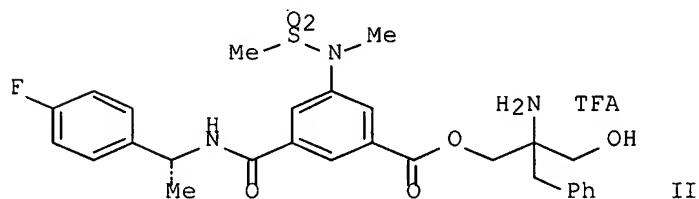
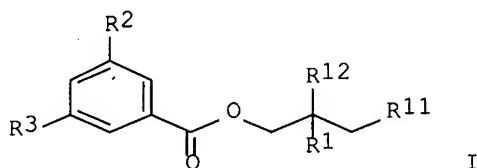
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG

AU 2004255191	A1	20050120	AU 2004-255191	20040625
CA 2530006	A1	20050120	CA 2004-2530006	20040625
EP 1643986	A2	20060412	EP 2004-756168	20040625
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1909897	A	20070207	CN 2004-80018651	20040625
JP 2007522088	T	20070809	JP 2006-518686	20040625
IN 2005DN05946	A	20080509	IN 2005-DN5946	20051220
US 20060149092	A1	20060706	US 2005-562470	20051222
US 7348448	B2	20080325		

PRIORITY APPLN. INFO.:

US 2003-484150P	P	20030701
WO 2004-US20525	W	20040625

OTHER SOURCE(S): MARPAT 142:134323
 GI



AB Title compds. [I; R1, R5, R9, R10 = H, (substituted) alkyl, alkenyl, alkynyl; R2 = R4SO2NR7, (substituted) Ph; R4 = (substituted) alkyl, alkenyl, alkynyl, Ph, PhCH2; R7 = H, alkyl, alkenyl, alkynyl; R3 = (substituted) PhCHR5NHCO, R9R10NHCO, etc.; R9R10 = atoms to form (substituted) pyrrolidinyl, piperidinyl; R11 = OH, alkoxy, phenylalkoxy, PhO, Ph; R12 = NR9R10, OH], were prepared as β -secretase inhibitors for the treatment of Alzheimer's disease (no data). Title compound (II) was prepared in several steps.

IT 827039-49-6P 827039-54-3P 827039-55-4P
 827039-57-6P 827039-58-7P 827039-59-8P
 827039-60-1P 827039-61-2P 827039-62-3P
 827039-63-4P 827039-64-5P 827039-65-6P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of phenylcarboxylate esters as β -secretase inhibitors for the treatment of Alzheimer's disease)

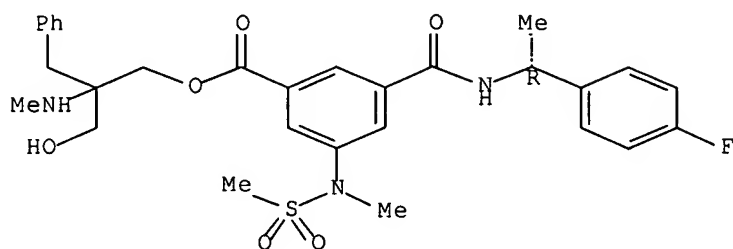
RN 827039-49-6 ZCAPLUS

CN Benzoic acid, 3-[[[(1R)-1-(4-fluorophenyl)ethyl]amino]carbonyl]-5-

10/573232

[methyl(methylsulfonyl)amino]-, 3-hydroxy-2-(methylamino)-2-(phenylmethyl)propyl ester (9CI) (CA INDEX NAME)

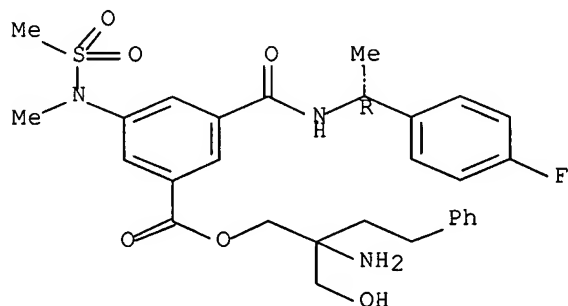
Absolute stereochemistry.



RN 827039-54-3 ZCAPLUS

CN Benzoic acid, 3-[[[(1R)-1-(4-fluorophenyl)ethyl]amino]carbonyl]-5-[methyl(methylsulfonyl)amino]-, 2-amino-2-(hydroxymethyl)-4-phenylbutyl ester (CA INDEX NAME)

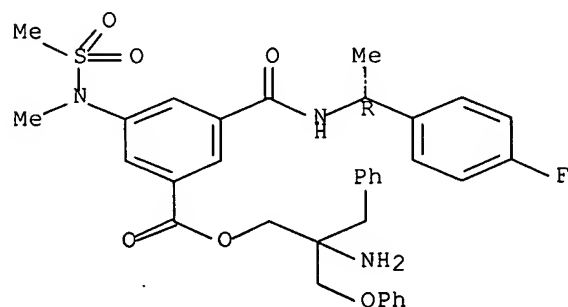
Absolute stereochemistry.



RN 827039-55-4 ZCAPLUS

CN Benzoic acid, 3-[[[(1R)-1-(4-fluorophenyl)ethyl]amino]carbonyl]-5-[methyl(methylsulfonyl)amino]-, 2-amino-2-(phenoxymethyl)-3-phenylpropyl ester (CA INDEX NAME)

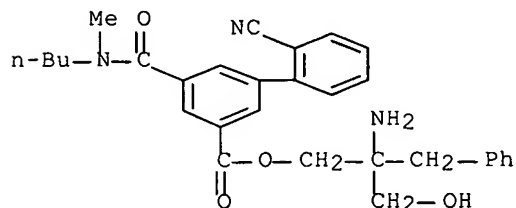
Absolute stereochemistry.



10/573232

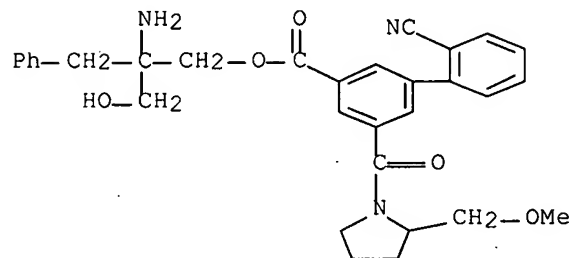
RN 827039-57-6 ZCAPLUS

CN [1,1'-Biphenyl]-3-carboxylic acid,
5-[(butylmethylamino)carbonyl]-2'-cyano-,
2-amino-2-(hydroxymethyl)-3-phenylpropyl ester (CA INDEX NAME)



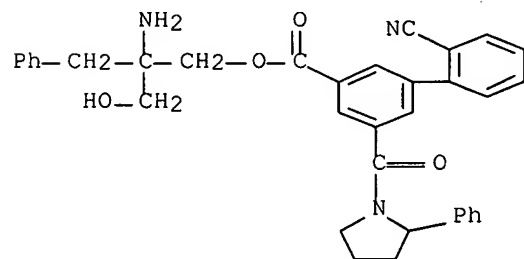
RN 827039-58-7 ZCAPLUS

CN [1,1'-Biphenyl]-3-carboxylic acid,
2'-cyano-5-[[2-(methoxymethyl)-1-pyrrolidinyl]carbonyl]-,
2-amino-2-(hydroxymethyl)-3-phenylpropyl ester (CA INDEX NAME)



RN 827039-59-8 ZCAPLUS

CN [1,1'-Biphenyl]-3-carboxylic acid,
2'-cyano-5-[(2-phenyl-1-pyrrolidinyl)carbonyl]-,
2-amino-2-(hydroxymethyl)-3-phenylpropyl ester (CA INDEX NAME)



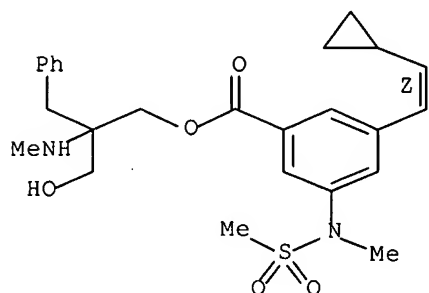
RN 827039-60-1 ZCAPLUS

CN Benzoic acid, 3-[(1Z)-2-cyclopropylethenyl]-5-

10/573232

[methyl(methylsulfonyl)amino]-, 2-(hydroxymethyl)-2-(methylamino)-3-phenylpropyl ester (CA INDEX NAME)

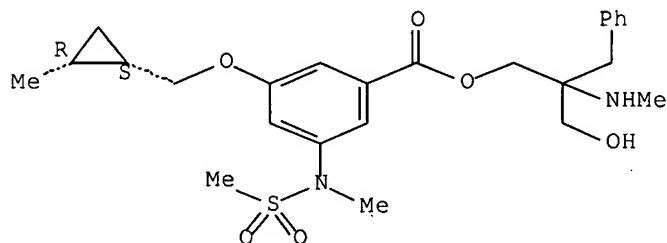
Double bond geometry as shown.



RN 827039-61-2 ZCAPLUS

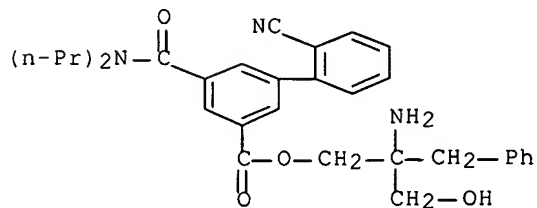
CN Benzoic acid, 3-[[[(1R,2S)-2-methylcyclopropyl]methoxy]-5-[methyl(methylsulfonyl)amino]-, 2-(hydroxymethyl)-2-(methylamino)-3-phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.



RN 827039-62-3 ZCAPLUS

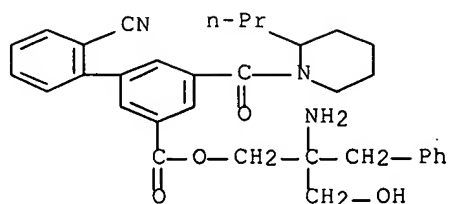
CN [1,1'-Biphenyl]-3-carboxylic acid, 2'-cyano-5-[(dipropylamino)carbonyl]-, 2-amino-2-(hydroxymethyl)-3-phenylpropyl ester (CA INDEX NAME)



RN 827039-63-4 ZCAPLUS

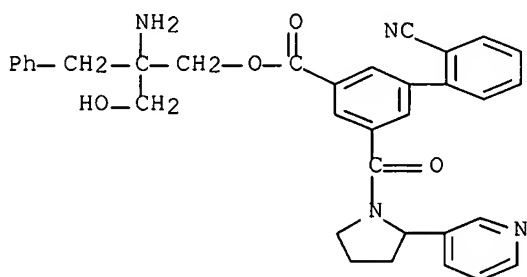
CN [1,1'-Biphenyl]-3-carboxylic acid, 2'-cyano-5-[(2-propyl-1-piperidiny)carbonyl]-, 2-amino-2-(hydroxymethyl)-3-phenylpropyl ester (CA INDEX NAME)

10/573232



RN 827039-64-5 ZCAPLUS

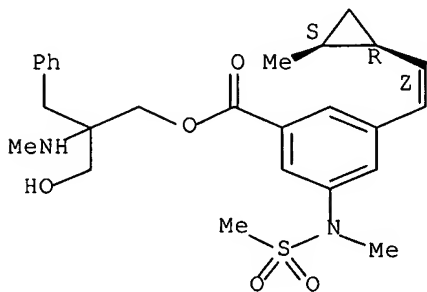
CN [1,1'-Biphenyl]-3-carboxylic acid,
2'-cyano-5-[[2-(3-pyridinyl)-1-pyrrolidinyl]carbonyl]-,
2-amino-2-(hydroxymethyl)-3-phenylpropyl ester (CA INDEX NAME)



RN 827039-65-6 ZCAPLUS

CN Benzoic acid, 3-[(1Z)-2-[(1R,2S)-2-methylcyclopropyl]ethenyl]-5-
[methyl(methylsulfonyl)amino]-, 2-(hydroxymethyl)-2-(methylamino)-3-
phenylpropyl ester, rel- (CA INDEX NAME)

Relative stereochemistry.
Double bond geometry as shown.



IT 827039-74-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)

10/573232

(preparation of phenylcarboxylate esters as β -secretase inhibitors for the treatment of Alzheimer's disease)

RN 827039-74-7 ZCAPLUS

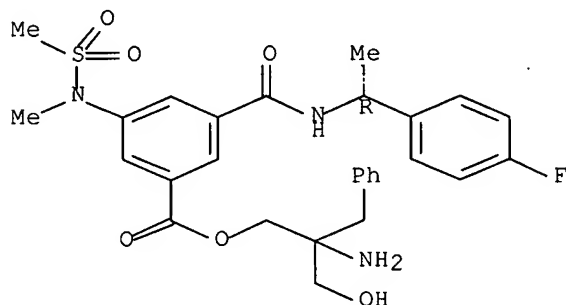
CN Benzoic acid, 3-[[[(1R)-1-(4-fluorophenyl)ethyl]amino]carbonyl]-5-[methyl(methylsulfonyl)amino]-, 2-amino-2-(hydroxymethyl)-3-phenylpropyl ester, mono(trifluoroacetate) (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 827039-73-6

CMF C28 H32 F N3 O6 S

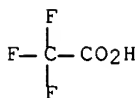
Absolute stereochemistry.



CM 2

CRN 76-05-1

CMF C2 H F3 O2



OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L17 ANSWER 3 OF 7 ZCAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:1191598 ZCAPLUS Full-text

DOCUMENT NUMBER: 146:116781

TITLE: Discovery of Oxadiazoyl Tertiary Carbinamine Inhibitors of β -Secretase (BACE-1)

AUTHOR(S): Rajapakse, Hemaka A.; Nantermet, Philippe G.; Selnick, Harold G.; Munshi, Sanjeev; McGaughey, Georgia B.; Lindsley, Stacey R.; Young, Mary Beth; Lai, Ming-Tain; Espeseth, Amy S.; Shi, Xiao-Ping; Colussi, Dennis; Pietrak, Beth; Crouthamel, Ming-Chih; Tugusheva, Katherine; Huang, Qian; Xu, Min; Simon, Adam J.; Kuo, Lawrence; Hazuda, Daria J.; Graham, Samuel; Vacca, Joseph P.

10/573232

CORPORATE SOURCE: Departments of Medicinal Chemistry, Structural Biology, Molecular Systems and Alzheimer's Research, Merck Research Laboratories, West Point, PA, 19486, USA

SOURCE: Journal of Medicinal Chemistry (2006), 49(25), 7270-7273

CODEN: JMCMAR; ISSN: 0022-2623

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 146:116781

AB We describe the discovery and optimization of tertiary carbinamine derived inhibitors of the enzyme β -secretase (BACE-1). These novel non-transition-state-derived ligands incorporate a single primary amine to interact with the catalytic aspartates of the target enzyme. Optimization of this series provided inhibitors with intrinsic and functional potency comparable to evolved transition state isostere derived inhibitors of BACE-1.

IT 918344-77-1 918344-77-1D, complexes with β -secretase

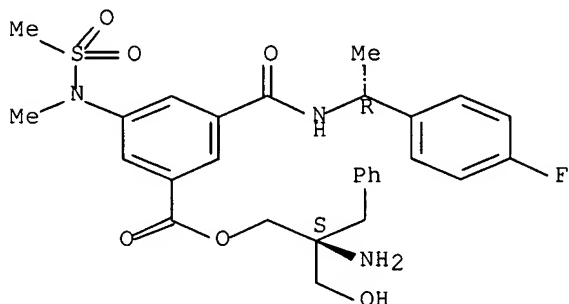
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(discovery of oxadiazoyl tertiary carbinamine inhibitors of β -secretase)

RN 918344-77-1 ZCAPLUS

CN Benzoic acid, 3-[[[(1R)-1-(4-fluorophenyl)ethyl]amino]carbonyl]-5-[methyl(methylsulfonyl)amino]-, (2S)-2-amino-2-(hydroxymethyl)-3-phenylpropyl ester (CA INDEX NAME)

Absolute stereochemistry.

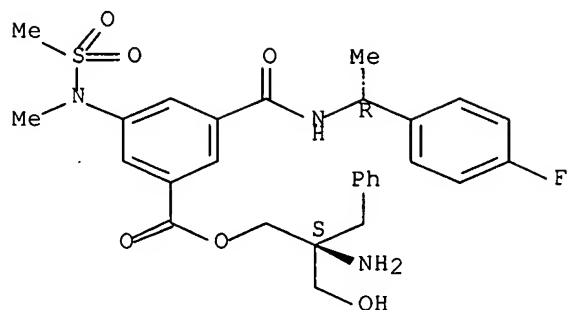


RN 918344-77-1 ZCAPLUS

CN Benzoic acid, 3-[[[(1R)-1-(4-fluorophenyl)ethyl]amino]carbonyl]-5-[methyl(methylsulfonyl)amino]-, (2S)-2-amino-2-(hydroxymethyl)-3-phenylpropyl ester (CA INDEX NAME)

Absolute stereochemistry.

10/573232



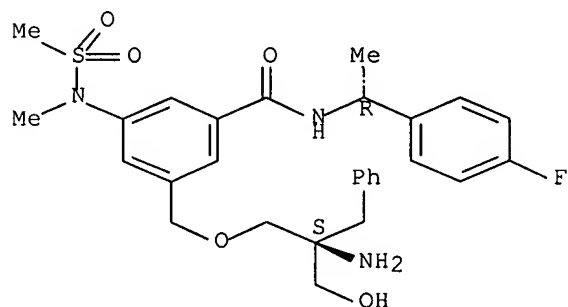
IT 905283-15-0P

RL: BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(discovery of oxadiazoyl tertiary carbinamine inhibitors of
β-secretase)

RN 905283-15-0 ZCAPLUS

CN Benzamide, 3-[[(2S)-2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-N-
[(1R)-1-(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]- (CA INDEX
NAME)

Absolute stereochemistry.



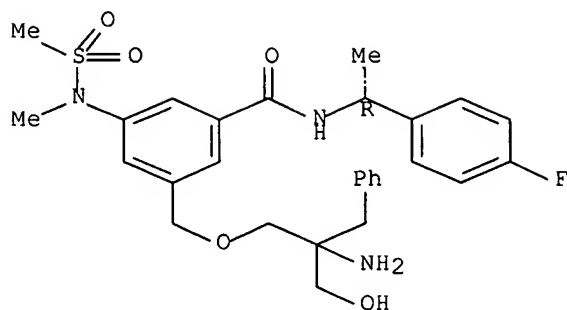
IT 849622-98-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(discovery of oxadiazoyl tertiary carbinamine inhibitors of
β-secretase)

RN 849622-98-6 ZCAPLUS

CN Benzamide, 3-[[2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-N-[(1R)-1-
(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]- (CA INDEX NAME)

Absolute stereochemistry.



OS.CITING REF COUNT: 24 THERE ARE 24 CAPLUS RECORDS THAT CITE THIS RECORD (24 CITINGS)
 REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 4 OF 7 ZCAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2006:502466 ZCAPLUS Full-text
 DOCUMENT NUMBER: 145:224304

TITLE: Computational approaches to the prediction of blood-brain barrier permeability: a comparative analysis of central nervous system drugs versus secretase inhibitors for Alzheimer's disease
 AUTHOR(S): Rishton, Gilbert M.; LaBonte, Kristen; Williams, Antony J.; Kassam, Karim; Kolovanov, Eduard
 CORPORATE SOURCE: Channel Islands Alzheimer's Institute, California State University Channel Islands, Camarillo, CA, 93012, USA
 SOURCE: Current Opinion in Drug Discovery & Development (2006), 9(3), 303-313
 CODEN: CODDF; ISSN: 1367-6733
 PUBLISHER: Thomson Scientific
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB This review summarizes progress made in the development of fully computational approaches to the prediction of blood-brain barrier (BBB) permeability of small mols., with a focus on rapid computational methods suitable for the anal. of large compound sets and virtual screening. A comparative anal. using the recently developed Advanced Chemical Development (ACD/Labs) Inc BBB permeability algorithm for the calcn. of logBB values for known Alzheimer's disease medicines, selected central nervous system drugs and new secretase inhibitors for Alzheimer's disease, is presented. The trends in logBB values and the associated physiochem. properties of these agents as they relate to the potential for BBB permeability are also discussed.

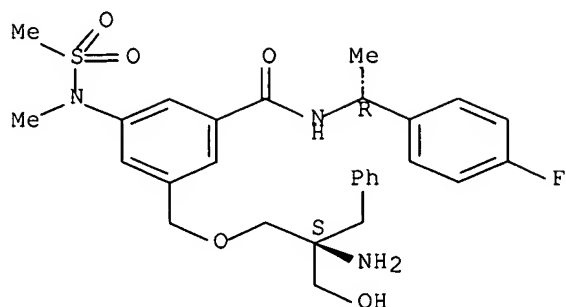
IT 905283-15-0

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
 (computational approaches to prediction of blood-brain barrier permeability and comparative anal. of central nervous system drugs vs. secretase inhibitors for Alzheimer's disease)

RN 905283-15-0 ZCAPLUS

CN Benzamide, 3-[[(2S)-2-amino-2-(hydroxymethyl)-3-phenylpropoxy]methyl]-N-[(1R)-1-(4-fluorophenyl)ethyl]-5-[methyl(methylsulfonyl)amino]- (CA INDEX NAME)

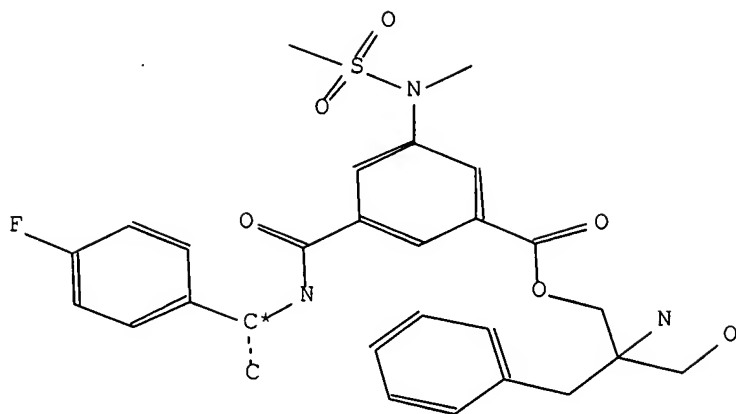
Absolute stereochemistry.



OS.CITING REF COUNT: 9 THERE ARE 9 CAPLUS RECORDS THAT CITE THIS RECORD (9 CITINGS)
 REFERENCE COUNT: 77 THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L17 ANSWER 5 OF 7 BEILSTEIN COPYRIGHT 2009 Elsevier Inf. Sys. on STN

Beilstein Records (BRN): 10738675
 Chemical Name (CN): 2-amino-2-benzyl-3-hydroxypropyl
 3-(<<(1R)-1-(4-fluorophenyl)ethyl>amino>-carbonyl)-5-<methyl(methylsulfonyl)amino>benzoate
 Autonom Name (AUN): N-<1-(4-fluoro-phenyl)-ethyl>-5-(methanesulfonyl-methyl-amino)-isophthalamide
 2-amino-2-hydroxymethyl-3-phenyl-propyl ester
 Molec. Formula (MF): C28 H32 F N3 O6 S
 Molecular Weight (MW): 557.64
 Lawson Number (LN): 16137, 15201, 14151, 2817, 2705
 File Segment (FS): Stereo compound
 Compound Type (CTYPE): isocyclic
 Constitution ID (CONSID): 8993254
 Entry Date (DED): 2007/07/13
 Update Date (DUPD): 2007/07/13



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	5
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
DED	Entry Date	1
DUPD	Update Date	1
NMR	Nuclear Magnetic Resonance	2
PHARM	Pharmacological Data	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO ₁	Substance is Reaction Product	1

All References:

ALLREF

1. Rajapakse, Hemaka A.; Nantermet, Philippe G.; Selnick, Harold G.; Munshi, Sanjeev; McGaughey, Georgia B.; Lindsley, Stacey R.; Young, Mary Beth; Lai, Ming-Tain; Espeseth, Amy S.; Shi, Xiao-Ping; Colussi, Dennis; et al., J. Med. Chem., CODEN: JMCMAR, SIR49(25), <2006>, 7270 - 7273; BABS-6653343

L17 ANSWER 6 OF 7 BEILSTEIN COPYRIGHT 2009 Elsevier Inf. Sys. on STN

Beilstein Records (BRN): 10737733
 Chemical Name (CN): 3-<((S)-2-amino-2-benzyl-3-hydroxypropyl)methyl>-N-<(1R)-1-(4-fluorophenyl)ethyl>-5-<methyl(methylsulfonyl)amino>benzamide

10/573232

Autonom Name (AUN): 3-(2-amino-2-hydroxymethyl-3-phenyl-propoxymethyl)-N-<1-(4-fluoro-phenyl)-ethyl>-5-(methanesulfonyl-methyl-amino)-benzamide

Molec. Formula (MF): C28 H34 F N3 O5 S

Molecular Weight (MW): 543.65

Lawson Number (LN): 16184, 15201, 14151, 2817, 2705

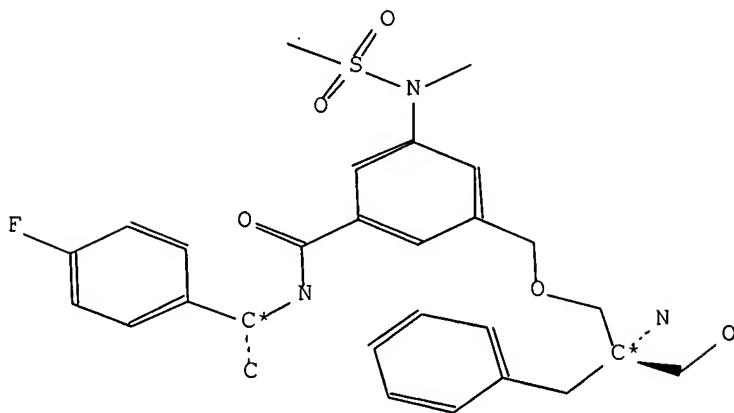
File Segment (FS): Stereo compound

Compound Type (CTYPE): isocyclic

Constitution ID (CONSID): 8992434

Entry Date (DED): 2007/07/13

Update Date (DUPD): 2007/07/13



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	5
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
DED	Entry Date	1
DUPD	Update Date	1
PHARM	Pharmacological Data	1

This substance also occurs in Reaction Documents:

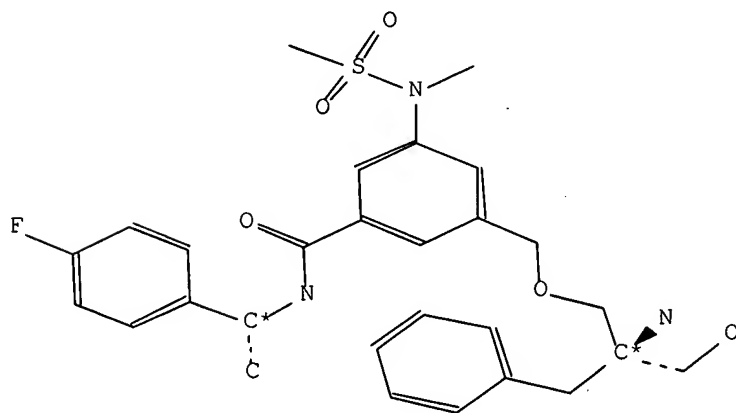
Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

All References:
ALLREF

1. Rajapakse, Hemaka A.; Nantermet, Philippe G.; Selnick, Harold G.; Munshi, Sanjeev; McGaughey, Georgia B.; Lindsley, Stacey R.; Young, Mary Beth; Lai, Ming-Tain; Espeseth, Amy S.; Shi, Xiao-Ping; Colussi, Dennis; et al., J. Med. Chem., CODEN: JMCMAR, SIR49(25), <2006>, 7270 - 7273; BABS-6653343

L17 ANSWER 7 OF 7 BEILSTEIN COPYRIGHT 2009 Elsevier Inf. Sys. on STN

Beilstein Records (BRN): 10737732
 Chemical Name (CN): 3-<((R)-2-amino-2-benzyl-3-hydroxypropyl)methyl>-N-<(1R)-1-(4-fluorophenyl)ethyl>-5-<methyl(methylsulfonyl)amino>benzamide
 Autonom Name (AUN): 3-(2-amino-2-hydroxymethyl-3-phenyl-propoxymethyl)-N-<1-(4-fluoro-phenyl)-ethyl>-5-(methanesulfonyl-methyl-amino)-benzamide
 Molec. Formula (MF): C28 H34 F N3 O5 S
 Molecular Weight (MW): 543.65
 Lawson Number (LN): 16184, 15201, 14151, 2817, 2705
 File Segment (FS): Stereo compound
 Compound Type (CTYPE): isocyclic
 Constitution ID (CONSID): 8992434
 Entry Date (DED): 2007/07/13
 Update Date (DUPD): 2007/07/13



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	5
FS	File Segment	1
CTYPE	Compound Type	1

10/573232

CONSID	Constitution ID	1
DED	Entry Date	1
DUPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

All References:

ALLREF

1. Rajapakse, Hemaka A.; Nantermet, Philippe G.; Selnick, Harold G.; Munshi, Sanjeev; McGaughey, Georgia B.; Lindsley, Stacey R.; Young, Mary Beth; Lai, Ming-Tain; Espeseth, Amy S.; Shi, Xiao-Ping; Colussi, Dennis; et al., J. Med. Chem., CODEN: JMCMAR, SIR49(25), <2006>, 7270 - 7273; BABS-6653343

10/573232

=> d his full

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(FILE 'HOME' ENTERED AT 12:47:22 ON 11 DEC 2009)

FILE 'REGISTRY' ENTERED AT 12:47:36 ON 11 DEC 2009
L1      STRUCTURE UPLOADED
L2      0 SEA SSS SAM L1

FILE 'STNGUIDE' ENTERED AT 12:48:51 ON 11 DEC 2009

FILE 'REGISTRY' ENTERED AT 13:11:18 ON 11 DEC 2009
L3      SCREEN 1071
L4      3 SEA SSS SAM L1 AND L3
        D SCA
        D STAT QUE
L5      38 SEA SSS FUL L1 AND L3
        SAVE TEMP L5 WAR232L1L3/A

FILE 'ZCAPLUS' ENTERED AT 13:13:15 ON 11 DEC 2009
L6      4 SEA SPE=ON  ABB=ON  PLU=ON  L5

FILE 'BEILSTEIN' ENTERED AT 13:13:23 ON 11 DEC 2009
L7      0 SEA SSS SAM L1 AND L3
L8      3 SEA SSS FUL L1 AND L3

FILE 'WPIX' ENTERED AT 13:14:06 ON 11 DEC 2009
L9      2 SEA SSS SAM L1 AND L3
L10     27 SEA SSS FUL L1 AND L3
L11     2 SEA SPE=ON  ABB=ON  PLU=ON  L10/DCR

FILE 'MARPAT' ENTERED AT 13:18:58 ON 11 DEC 2009
L12     STRUCTURE UPLOADED
L13     3 SEA SSS SAM L12
L14     STRUCTURE UPLOADED
L15     0 SEA SSS SAM L14
L16     1 SEA SSS FUL L14
        D SCA
        D BIB

FILE 'REGISTRY' ENTERED AT 13:24:46 ON 11 DEC 2009

FILE 'ZCAPLUS' ENTERED AT 13:24:49 ON 11 DEC 2009
        D STAT QUE L6

FILE 'BEILSTEIN' ENTERED AT 13:25:02 ON 11 DEC 2009
        D STAT QUE L8

FILE 'WPIX' ENTERED AT 13:25:10 ON 11 DEC 2009
        D STAT QUE L11

FILE 'MARPAT' ENTERED AT 13:25:20 ON 11 DEC 2009
        D STAT QUE L16

FILE 'ZCAPLUS, BEILSTEIN, WPIX, MARPAT' ENTERED AT 13:25:33 ON 11 DEC 2009
L17     7 DUP REM L6 L8 L11 L16 (3 DUPLICATES REMOVED)
        ANSWERS '1-4' FROM FILE ZCAPLUS
        ANSWERS '5-7' FROM FILE BEILSTEIN
        D IBIB ABS HITSTR L17 1-4
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FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 10 DEC 2009 HIGHEST RN 1196958-61-8
DICTIONARY FILE UPDATES: 10 DEC 2009 HIGHEST RN 1196958-61-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 26, 2009.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

FILE STNGUIDE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Dec 4, 2009 (20091204/UP).

FILE ZCAPLUS

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FILE COVERS 1907 - 11 Dec 2009 VOL 151 ISS 25

FILE LAST UPDATED: 10 Dec 2009 (20091210/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2009

ZCAplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2009.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BEILSTEIN

FILE LAST UPDATED ON April 24, 2009

FILE COVERS 1779 TO 2008.

FILE CONTAINS 10,593,281 SUBSTANCES

>>>PLEASE NOTE: Reaction Data and substance data are stored in separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST. *
* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE *
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>>> Price change as of January 1st, 2008: Connect Time and Structure Search fees re-introduced. See HELP COST <<<

FILE WPIX

FILE LAST UPDATED: 4 DEC 2009 <20091204/UP>

MOST RECENT UPDATE: 200978 <200978/DW>

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>>> IPC, ECLA, US National Classifications and Japanese F-Terms and FI-Terms have been updated with reclassifications to end of September 2009.

No update date (UP) has been created for the reclassified documents, but they can be identified by specific update codes (see HELP CLA for details) <<<

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http://www.stn-international.com/stn_guide.html

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http://www.stn-international.com/DWPIAnaVist2_0608.html

>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> Japanese FI-TERM thesaurus in field /FCL added --> see NEWS <<<

FILE MARPAT

FILE CONTENT: 1961-PRESENT VOL 151 ISS 23 (20091204/ED)

MARPAT RECORDS ARE DERIVED FROM INPI DATA FOR 1961-1987

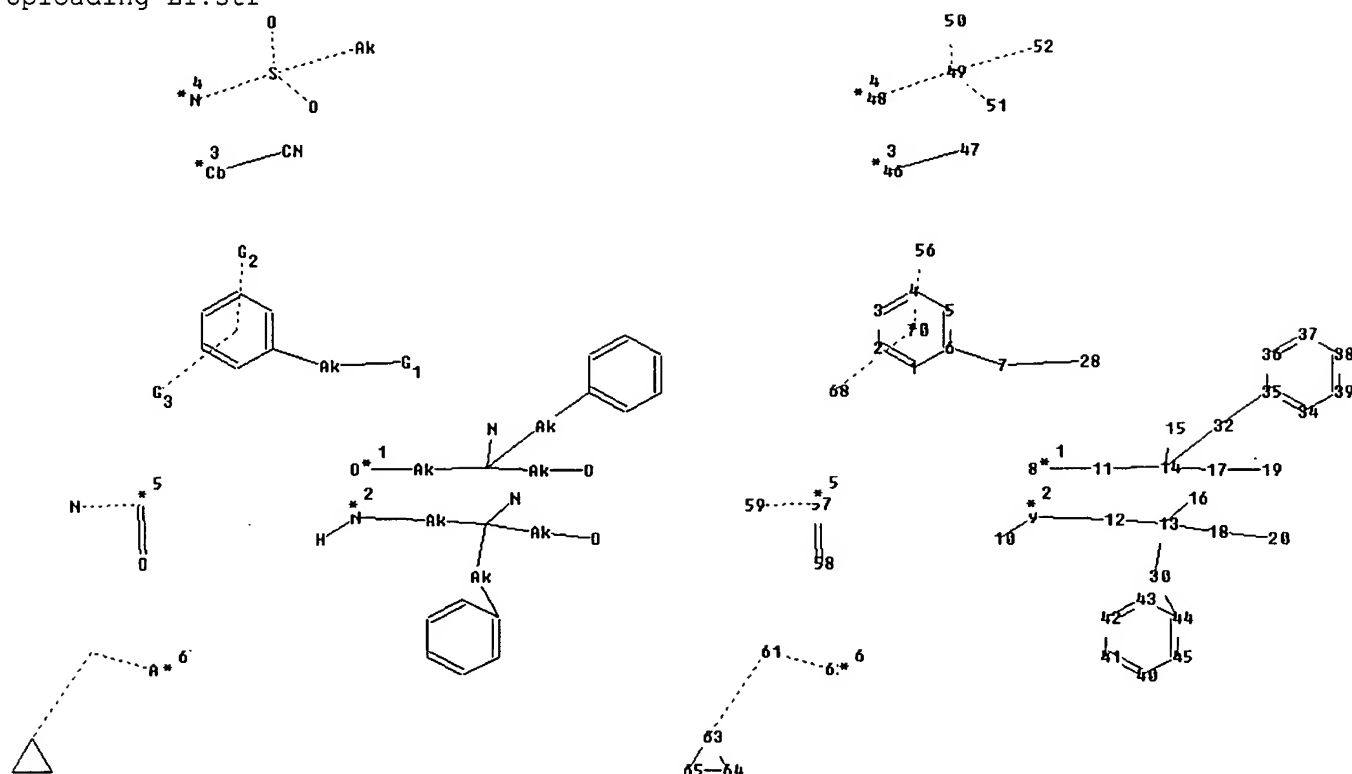
MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 20090275099 05 NOV 2009
DE 102008019858 22 OCT 2009
EP 2110127 21 OCT 2009
JP 2009260249 05 NOV 2009
WO 2009135699 12 NOV 2009
GB 2459133 14 OCT 2009
FR 2930141 23 OCT 2009
RU 2370496 20 OCT 2009
CA 2653107 08 AUG 2009

The new MARPAT User Guide is now available at:
<http://www.cas.org/support/stngen/stdoc/marpat.html>.

=>

Uploading L1.str



chain nodes :

7 8 9 10 11 12 13 14 15 16 17 18 19 20 28 30 32 46 47 48 49
50 51 52 56 57 58 61 62 68

ring nodes :

1 2 3 4 5 6 34 35 36 37 38 39 40 41 42 43 44 45 63 64 65

ring/chain nodes :

59

chain bonds :

6-7 7-28 8-11 9-10 9-12 11-14 12-13 13-16 13-18 13-30 14-15 14-17 14-32
17-19 18-20 30-44 32-35 46-47 48-49 49-50 49-51 49-52 57-58 57-59 61-62
61-63

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 34-35 34-39 35-36 36-37 37-38 38-39 40-41 40-45
41-42 42-43 43-44 44-45 63-64 63-65 64-65

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exact/norm bonds :

6-7 7-28 8-11 9-12 11-14 12-13 13-16 13-18 13-30 14-15 14-17 14-32 30-44

32-35 48-49 49-50 49-51 49-52 57-58 57-59 61-62 61-63 63-64 63-65 64-65

exact bonds :

9-10 17-19 18-20 46-47

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 34-35 34-39 35-36 36-37 37-38 38-39 40-41 40-45

41-42 42-43 43-44 44-45

G1:[*1],[*2]

G2:[*3],[*4]

G3:[*5],[*6]

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS

11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 17:CLASS 18:CLASS

19:CLASS 20:CLASS

28:CLASS 30:CLASS 32:CLASS 34:Atom 35:Atom 36:Atom 37:Atom 38:Atom 39:Atom

40:Atom 41:Atom

42:Atom 43:Atom 44:Atom 45:Atom 46:Atom 47:CLASS 48:CLASS 49:CLASS 50:CLASS

51:CLASS

52:CLASS 56:CLASS 57:CLASS 58:CLASS 59:CLASS 61:CLASS 62:CLASS 63:Atom

64:Atom 65:Atom

68:CLASS 69:CLASS 70:CLASS

Generic attributes :

7:

Saturation : Saturated

11:

Saturation : Saturated

12:

Saturation : Saturated

17:

Saturation : Saturated

18:

Saturation : Saturated

30:

Saturation : Saturated

32:

Saturation : Saturated

Element Count :

Node 7: Limited

C,C1-2

Node 11: Limited

C,C1-2

Node 12: Limited

C,C1-2

Node 17: Limited

C,C1-2

Node 18: Limited

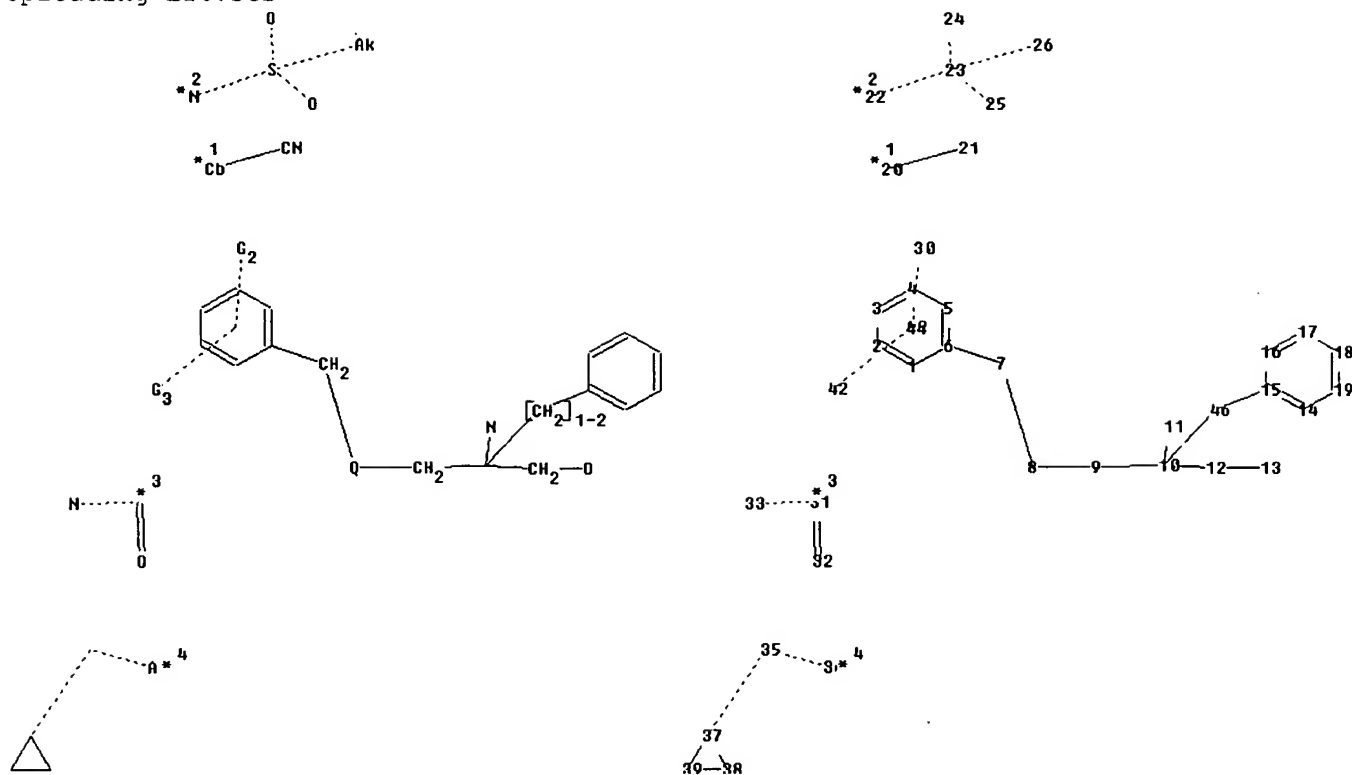
C,C1-2

10/573232

Node 30: Limited
C,C1-3

Node 32: Limited
C,C1-3

Uploading L14.str



chain nodes :

7 8 9 10 11 12 13 20 21 22 23 24 25 26 30 31 32 35 36 42 46

ring nodes :

1 2 3 4 5 6 14 15 16 17 18 19 37 38 39

ring/chain nodes :

33

chain bonds :

6-7 7-8 8-9 9-10 10-11 10-12 10-46 12-13 15-46 20-21 22-23 23-24 23-25
23-26 31-32 31-33 35-36 35-37

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 14-15 14-19 15-16 16-17 17-18 18-19 37-38 37-39

38-39

exact/norm bonds :

7-8 8-9 10-11 22-23 23-24 23-25 23-26 31-32 31-33 35-36 35-37 37-38 37-39

38-39

exact bonds :

6-7 9-10 10-12 10-46 12-13 15-46 20-21

normalized bonds :

10/573232

1-2 1-6 2-3 3-4 4-5 5-6 14-15 14-19 15-16 16-17 17-18 18-19

G2:[*1],[*2]

G3:[*3],[*4]

Connectivity :

8:2 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:CLASS
22:Atom 23:Atom 24:CLASS 25:CLASS 26:CLASS 30:CLASS 31:CLASS 32:Atom
33:Atom 35:CLASS 36:CLASS
37:Atom 38:Atom 39:Atom 42:CLASS 43:CLASS 44:CLASS 46:CLASS